

## ABSTRACT

A flowbore fluid temperature control system comprising a valve mechanism that adjusts the flow of a fluid through a flowbore. The flowbore fluid temperature control system also comprises an actuator that adjusts the valve mechanism. The flowbore fluid temperature control system also comprises an operating system that operates the actuator and controls the flowbore fluid pressure. The flowbore fluid temperature control system selectively controls the temperature of the flowbore fluid by adjusting the flow of the fluid through the flowbore. The control system controls the actuator and also controls the flowbore fluid pressure to affect the temperature of the flowbore fluid.